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Total Number of Pages in This Submission

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Application Number

10/727,083

Filing Date

12/02/2003

First Named Inventor

Laibin Luo

Art Unit

1714

Examiner Name

Attorney Docket Number

2267.006

ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	McHale & Slavin, P.A.		
Signature			
Printed name	Ferris H. Lander		
Date	2/23/2006	Reg. No.	43,377

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THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICANT : Laibin Luo et al

INVENTION: : PROCESS FOR THE PREPARATION OF
AMPHIPHILIC POLY(N-VINYL-2-PYRROLIDONE)
BLOCK COPOLYMERS

SERIAL NUMBER : 10/727,083

FILING DATE : December 2, 2003

EXAMINER: :

GROUP ART UNIT : 1714

ATTORNEY DOCKET NO. : 2267.006

CERTIFICATE UNDER 37 CFR §1.8(a)

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Sir:

Pursuant to the Duty to Disclose under 37 CFR §1.56, the references cited on the accompanying forms PTO/SB/08A and PTO/SB/08B are hereby brought to the attention of the Examiner for independent evaluation. Pursuant to the Official Gazette Notice dated August 5, 2003, Applicants are not required to submit copies of the cited US patent documents. However, copies of those non-patent literature documents are enclosed. The references were cited in the specification and their relevancy is set forth therein.

Applicants submit that the present invention is patentable over these references.

Date: 2/23/2006

Respectfully Submitted,

Ferris H. Lander

Ferris H. Lander

Reg. No. 43,377

McHale & Slavin, P.A.

2855 PGA Boulevard

Palm Beach Gardens, FL 33410

Telephone: (561) 625-6575

Telefax: (561) 625-6572

e-mail: palmbeach@mspatents.com



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Substitute for form 1449/PTO

(Use as many sheets as necessary)

Complete if Known

Application Number	10/727,083
Filing Date	12/02/2003
First Named Inventor	Laibin Luo et al
Art Unit	1714
Examiner Name	
Attorney Docket Number	2267.006

Sheet	1	of
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U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)	Application Number		10/727,083		
	Filing Date		12/02/2003		
	First Named Inventor		Laibin Luo et al		
	Art Unit		1714		
	Examiner Name				
Sheet	2	of	5	Attorney Docket Number	2267.006

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		H. BURT et al, "Development of copolymers of poly(D,L-lactide) and methoxypolyethylene glycol as micellar carriers of paclitaxel", Colloids and Surfaces B: Biointerfaces, 16:161-171 (1999)	
		P. ALEXANDRIDIS, "Poly(ethylene oxide)/poly(propylene oxide) block copolymer surfactants", Current Opinion in Colloid & Interface Science, 2:478-489 (1997)	
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		H. SANG YOO et al, "Biodegradable polymeric micelles composed of doxorubicin conjugated PLGA-PEG block copolymer", Journal of Controlled Release, 70:63-70 (2001)	

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	Art Unit		1714		
	Examiner Name				
Sheet	3	of	5	Attorney Docket Number	2267.006

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		M-C. JONES et al, "Polymeric micelles - a new generation of colloidal drug carriers", European Journal of Pharmaceutics and Biopharmaceutics, 48:101-111 (1999)	
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		Z. LIU et al, "Studies on the free radical polymerization of N-vinylpyrrolidinone in 3-methylbutan-2-one", Macromolecules, 35:1200-1207 (2002)	
		G. DOEBBLER, "Cryoprotective compounds", Cryobiology, 3(1):2-11 (1966)	

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Sheet	4	of	5	Attorney Docket Number	2267.006

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		F. HAAF et al, "Polymers of N-vinylpyrrolidone: synthesis, characterization and uses", Polymer Journal, 17 (1):143-152 (1985)	
		A. BENAHEMED et al, "Novel polymeric micelles based on the amphiphilic diblock copolymer poly(N-vinyl-2-pyrrolidone)-block-poly(D,L-lactide)", Pharmaceutical Research, 18(3):323-328 (2001)	
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		M. YOKOYAMA et al, "Characterization of physical entrapment and chemical conjugation of adriamycin in polymeric micelles and their design for in vivo delivery to a solid tumor", Journal of Controlled Release, 50:79-92 (1998)	
		G. KWON et al, "Enhanced tumor accumulation and prolonged circulation times of micelle-forming poly(ethylene oxide-aspartate) block copolymer-adriamycin conjugates", Journal of Controlled Release, 29:17-23 (1994)	
		K. KATAOKA et al, "Block copolymer micelles for drug delivery: design, characterization and biological significance", Advanced Drug Delivery Reviews, 47:113-131 (2001)	
		A. GABIZON et al, "Long-circulating liposomes for drug delivery in cancer therapy: a review of biodistribution studies in tumor-bearing animals", Advanced Drug Delivery Reviews, 24:337-344 (1997)	
		K. MATYJASZEWSKI et al, "Hydrogels by atom transfer radical polymerization. I. Poly(N-vinylpyrrolidone-g-styrene) via the macromonomer method", Journal of Polymer Science Part A: Polymer Chemistry, 36:823-830 (1998)	

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		K. MATYJASZEWSKI, "Mechanistic aspects of atom transfer radical polymerization", Am. Chem. Soc. Symp. Ser., 685:258-283 (1998)	
		A. KABANOV et al, "Pluronic block copolymers for overcoming drug resistance in cancer", Advanced Drug Delivery Reviews, 54:759-779 (2002)	
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		J. EGUIBURU et al, "Graft copolymers for biomedical applications prepared by free radical polymerization of poly(L-lactide) macromonomers with vinyl and acrylic monomers", Polymer, 37(16):3615-3622 (1996)	

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